



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: TANGA2

In re Application of:	)	Art Unit: 1634
	)	
Michifumi TANGA, et al.	)	Examiner: B.J. FORMAN
	)	
Serial No.: 09/601,875	)	Confirmation No. 5274
	)	
Filed: October 12, 2000	)	Washington D.C.
	)	
For: SUBSTRATES AND CHIPS	)	January 27, 2003
FOR IMMOBILIZING AND	)	
AMPLIFYING DATA	)	

AMENDMENT

Honorable Commissioner for Patents  
Washington, D.C. 20231

In response to the Office Action of  
October 28, 2003, please enter the following amendment:

IN THE CLAIMS

Please cancel claims 4 and 5 without prejudice or  
disclaimer.

Please amend claim 1 as follows:

1. (Fourth Amendment) Solid state substrate adapted  
and configured for DNA immobilization, said solid state  
substrate having a thermal conductivity ratio of at least  
0.1W/cmEK for amplifying and immobilizing DNA,  
wherein the surface of the substrate is modified polar radical  
at the surface of the substrate by binding a chloride by  
irradiating the surface of the substrate with ultraviolet  
light in an atmosphere of chlorine gas to bind chloride to the  
substrate, and replacing the chloride by a hydroxyl radical by  
dipping the substrate into a boiling alkali solution or steam,  
or by binding an amino radical to the substrate by irradiating

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